Jason Barrella

jmbtis@gmail.com
https://github.com/jbarrella

SKILLS

Coding: Python, C++, JavaScript

Tech: TensorFlow, ROOT, Ansible, SQL, Docker, RESTful APIs, Linux/Unix, Git/SVN & CI, MERN

Other: Mathematics, Statistical analysis, Trading, Academic Writing, Speaking/presenting

EDUCATION

M.Sc. Physics 2020-2021
University of Cape Town
Specialization: Experimental High-Energy Physics
Awards: UCT VC Research Scholarship

B.Sc. Hons. Physics 2016-2019
University of Cape Town
Project: Machine Learning in Prompt Gamma Detection
Awards: Dean's Merit List Award

CERTIFICATES

Machine Learning Online Course 2019
Stanford University

EXPERIENCE

Freelance Software Developer 2020-present
UpWork
- Automated cryptocurrency spot trading platform with CLI. Highlights potential trades based on market and token analysis. Proved to be highly profitable for client.
- Fully-featured Box.com application offering efficient file management from command line.
- Property searcher. Generates geographical data from UK post code tables and systematically parses 50000+ online listings in order to find relevant results based on user-selected criteria.

Physics Tutor 2019-2021
University of Cape Town
- 4th year (honors) computational physics.
- 3rd year advanced electro-magnetism and special relativity.
- 1st year engineering physics.

Trader of Cryptocurrencies and Digital Assets 2016-2018
Self-managed while studying full-time
- Built and deployed a fully automated high-frequency cryptocurrency arbitrage bot.
- Wrote several pieces of software in Python and JS to automate various aspects of my digital asset trading.
- Gained knowledge in fields of market analysis, trading algorithms.
- Netted a profit of over 200 000 ZAR.

INTERESTS

Philosophy, Theology, Reading, Puzzles/Trivia, Codewars, Running, Cycling, Climbing